

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listing, of claims in the application:

1. (Currently Amended) An anode with a 2450MHz resonance frequency comprising:

a cylindrical anode body with an inside diameter in a range of 32.5 to 34.0 mm;

~~a total of ten vanes~~ a plurality of vanes fitted to an inside circumferential surface of the anode body in a radial direction, the plurality comprising at least ten; and

~~an inner strap and an outer strap provided to both of an upper surface and a lower surface of each vane~~ inner straps and outer straps positioned at opposite sides of the vanes, ~~a distance of~~ a distance between the inner strap and the outer strap being in a range of 0.8 to 1.2mm, and each one of the inner strap and outer strap being in contact with every second ~~vanes~~ vane for alternate electrical connection of the vanes alternately.

2. (Currently Amended) The anode as claimed in claim 1, wherein the anode body and vanes are formed as a single ~~one unit for simplification of a fabrication process.~~

3. (Original) The anode as claimed in claim 1, wherein the anode body and vanes have the same thickness.

4. (Currently Amended) A magnetron with an energy efficiency of higher than 70% comprising:

an anode with a 2450MHz resonance frequency including;

a cylindrical anode body with an inside diameter ranging 32.5 ~ 34.0 mm, a ~~total of ten vanes~~ a plurality of vanes fitted to an inside circumferential surface of the anode body in a radial direction, the plurality comprising at least ten; and an ~~inner strap and an outer strap provided to both of an upper surface and a lower surface of~~ inner straps and outer straps positioned at opposite sides of the vanes, a ~~distance of~~ a distance between the inner strap and the outer strap being in a range of 0.8 to 1.2mm, and ~~each one~~ one of the inner strap and outer strap being in contact with every second ~~vanes~~ vane for alternate electrical connection of the ~~vanes alternately~~;

an antenna attached to one of the vanes for transmitting a high frequency energy generated at the anode body to an exterior; and

a helical filament in an inner central part of the anode.

5. (Currently Amended) The magnetron as claimed in claim 4, wherein the anode body and vanes are formed as a single ~~one unit for simplification of a~~ ~~fabrication process~~.

6. (Original) The magnetron as claimed in claim 4, wherein the anode body and vanes have the same thickness.